Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2018-12-13-74 **Date: 03-12-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04 |
| **Agency** | : | Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64 |
| **Customer's Reference** | : | EE(TNK.D)E-PMT-21/WO/90/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 30-11-2018 |
| **Sample ID No** | : | 2018-12-13-73 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 01-12-2018 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.85 | _ |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 348.6 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.15 | _ |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 135 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 245 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

**Note:**

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL PRO BANGALORE Sig..... Date.....


****End of Report****